

SYSTEM AND METHOD FOR TOPOLOGY-AWARE JOB SCHEDULING  
AND BACKFILLING IN AN HPC ENVIRONMENT

ABSTRACT OF THE DISCLOSURE

A method for job management in an HPC environment includes determining an unallocated subset from a plurality of HPC nodes, with each of the unallocated HPC  
5 nodes comprising an integrated fabric. An HPC job is selected from a job queue and executed using at least a portion of the unallocated subset of nodes.